CARLETON UNIVERSITY

Ottawa, Ontario

110th Convocation

Thursday, June 11, 1998

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1998 Spring Convocation

Convocation at Carleton University — 2

Thursday, June 11, 10:00 a.m.

Honorary Degree Recipient J.G. (Gerry) Turcotte — 4

Order of Proceedings — 5
Doctor of Philosophy from the Faculty of Engineering; Master of Engineering;
Bachelor of Engineering; Bachelor of Architecture;
Bachelor of Industrial Design

Thursday, June 11, 2:00 p.m.

Honorary Degree Recipient Zdenek Johan —14

Founders Award Recipient H.H.J. Nesbitt —15

Order of Proceedings — 17
Doctor of Philosophy from the Faculty of Science and
the School of Computer Science; Master of Science; Master of Computer
Science; Bachelor of Science; Bachelor of Computer Science

Medallists in the Graduating Class — 27

Convocation at Carleton University

The Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

The Mace

The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English— "Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Coat of Arms

The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn, Governor-General of Canada, on November 15, 1992 as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows: "Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 82 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Diploma

The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's —are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: architecture is cerise; arts is white; commerce is camel brown; computer science is royal blue; engineering is orange; industrial design is dark cardinal; international business is camel brown with a red cord sewn slightly in from the lower border; journalism is white with a black cord sewn slightly in from the lower border; management studies is camel brown with a black cord sewn slightly in from the lower border; music is venetian pink; public administration is peacock blue; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The bachelor's gown, to be worn with the above hoods, is of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The master's gown is of full style, made of black silk or rayon, with a full gathered yoke behind, and closed sleeves with an opening at the elbows. The doctoral gown is of the same style as the master's, but made of fine royal blue cloth with facings of light blue silk.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations, the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Science, Engineering, Architecture or Fine Arts is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same

material as the gown, has the same lining as that for the degrees granted by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering, cerise for the degree of Doctor of Architecture, and dark cardinal for the degree of Doctor of Fine Arts.

Alumni Park

Weather permitting, today's Convocation ceremonies are being held outdoors in Alumni Park which was dedicated in 1992, at the initiative of the Carleton University Alumni Association, to commemorate the University's 50th anniversary. The arbour under which the Chancellor, the President and Vice-Chancellor, the representative of the Board of Governors, and the faculty are seated is a generous gift from the Association. It provides a permanent stage for Carleton's Convocation ceremonies and other events such as theatrical productions, concerts, and the like. Future plans for the Park include an enhancement of the existing fountain area with the construction of a plaza and landscaping to open up views to the Rideau River.

The Presiding Officer of Convocation is the Chancellor of the University, Arthur Kroeger, O.C., M.A., LL.D.

Accompanying him on the podium are Zeev Vered, B.Eng., D. U., representing the Board of Governors, and Richard J. Van Loon, B.Sc., M.A., Ph.D., President and Vice-Chancellor.

Assisting the Chancellor are:

Chong H. Chan, B.S., M.A.Sc., Ph.D., P.Eng.
Professor of Engineering
Clerk of Senate
and Marshal of Convocation

Michael F. Fox, B.A., M.A.
Associate Professor of Geography
and Assistant Marshal of Convocation

Timothy A. Pychyl, B.Sc., B.Ed., M.A., Ph.D.
Assistant Professor of Psychology
and Assistant Marshal of Convocation

John P. Braaksma, M.A.Sc., Ph.D., P.Eng.
Professor of Engineering
and Beadle of Convocation

Robert C. Burk, B.Sc., M.Sc., Ph.D.
Instructor of Chemistry
and Beadle of Convocation

David T. Lau, B.Eng., M.S., Ph.D., P.Eng.
Associate Professor of Engineering
and Beadle of Convocation

Moyra J. McDill, B.Eng., M.Eng., Ph.D., P.Eng.
Associate Professor of Engineering
and Beadle of Convocation

Ildi Munro, B.A., M.Sc.
Instructor of Earth Sciences
and Beadle of Convocation

John Sinclair, B.Sc., Dip.Biophysics, Ph.D.
Associate Professor of Biology
and Beadle of Convocation

Also assisting at Convocation:

Linda Backer
Assistant Dean/Registrar
Faculty of Graduate Studies and Research

G.E. Bauer, B.A.Sc., M.A.Sc., Ph.D., F.E.I.C., P.Eng.
Professor of Engineering
Associate Dean and Registrar
Faculty of Engineering and Design

Ruth Lifeso, B.Sc.
Assistant Dean and Registrar
Faculty of Science and School of Computer Science

Carol Corkran
Cindy Halden
Kathleen Hickey, B.A.
Sharon Palmer
Registrar's Office, Faculty of Graduate Studies and Research

Mary Orser
Lisa Ralph
Registrarial Services, Faculty of Science
and School of Computer Science

Pegge Clarke
Marlene Groves
Colin Harkness, B.A.
Registrarial Services, Faculty of Engineering and Design

Anne-Marie Lépine
Lisa Tsotroudis, B.A.
Norman Smithley
Records and Registration Services

Pamela Mallon
Patrick O'Brien, B.A., D.P.A.
Gail Stanton
Office of the President

Heather Brown, B.A.
Nanci Jolicoeur
Tambrae Knapp
MaryAnne Pomainville
University Communications

Cathy Pearen
Senate Office

Honorary Degree Recipient

J.G. (Gerry) Turcotte, B.Eng.

J.G. (Gerry) Turcotte, President of the Communications Research Centre and former President and C.E.O. of the (then) Ottawa-Carleton Research Institute (Ottawa Centre for Research and Innovation), will be awarded the degree of Doctor of Engineering, *honoris causa*, at the morning ceremony on Thursday, June 11, "in recognition of an outstanding leadership role in taking the Ottawa Centre for Research and Innovation from concept to reality, from a minor role in the technology infrastructure to a position of regional and national prominence."

Order of Proceedings
Thursday, June 11, 10:00 a.m.

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.

Processional Music
John Robert Coghill Sr., C.D. (bagpipes)
John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
Thomas J. Brown (snare drum)

O Canada*
(the audience is invited to sing)

Welcome by the Master of Ceremonies
John W. ApSimon, B.Sc., Ph.D.
Vice-President (Research and External)

Conferring of the Degree of
Doctor of Engineering,
***honoris causa*, upon**
J.G. (Gerry) Turcotte, B.Eng.,
(presented by J.S. Riordon, B.Eng., M.Eng.,
D.I.C., Ph.D., P.Eng., Professor of Engineering)

Convocation Address
J.G. (Gerry) Turcotte

Conferring of Degrees by Examination

Warrant
Chong H. Chan, B.S., M.A.Sc., Ph.D., P.Eng.
Clerk of Senate

Awarding of Medals

Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!

True patriot love in all thy sons command.

With glowing hearts we see thee rise,

The True North strong and free!

From far and wide, O Canada,

We stand on guard for thee.

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

Recipients of Degrees

Doctor of Philosophy

(presented by Professor R.C. Blockley, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** James Xiang Lee**
B.Eng. (University of Science and Technology, China), M.Eng. (Carleton)
Aerospace Engineering
On Fuzzy Logic Systems, Non-linear System Identification, and Adaptive Control
Supervisors: Robert Bell and G. Vukovich

Mohammad Ali Rahgozar
B.Sc. (Isfahan University of Technology, Iran), M.Eng. (Carleton)
Civil Engineering
Ductility and Strength Demands in Building Structures Subjected to Earthquake Forces
Supervisor: J.L. Humar

Curtis Eldon Hrischuk
B.Sc., B.Eng. (Saskatchewan), M.Eng. (Carleton)
Electrical Engineering
Trace-Based Load Characterization for the Automated Development of Software Performance Models
Supervisor: C.M. Woodside

*** Prasad Prabhakar Jogalekar**
B.Tech., M.Tech., (Indian Institute of Technology, India)
Electrical Engineering
Scalability Analysis Framework for Distributed Systems
Supervisor: C.M. Woodside

*** José A. Macedo**
B.Eng., M.A.Sc. (Technical University of Nova Scotia)
Electrical Engineering
Monolithic Silicon Receiver Front-Ends for Portable Radio
Supervisor: M.A. Copeland

Hong-Kui Yang
B.A., M.Eng. (Beijing University of Posts and Telecommunications)
Electrical Engineering
Low-Power Oversampled Signal Processing for Digital Radio Transceivers
Supervisor: W.M. Snelgrove

Master of Engineering

(presented by Professor R.C. Blockley, Dean of the Faculty of Graduate Studies and Research)

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Zubin Chinoy
B.Eng. (Concordia)
Aerospace Engineering
An Investigation of the Aerodynamic Effects of a Two-Radome Installation on a Challenger Aircraft

Andrew Ronald Fitzgerald
B.Eng. (Royal Military College)
Aerospace Engineering

Vinay Menon
B.Eng. (Carleton)
Aerospace Engineering
Fuzzy Logic Controller for an Artificial Heart

Sidharth Saraf
B.Eng. (Carleton)
Aerospace Engineering
Rendezvous Simulation of the Automated Transfer Vehicle with the International Space Station

Fathi Abushoglin
B.Sc. (Al-Fateh, Libya)
Civil Engineering
Computer-Aided Nonlinear Analysis of Simple Beams and One-Way Slabs Reinforced by FRP and/or Steel Bars

*** Michael Richard Lee Bennett**
B.Eng. (Carleton)
Civil Engineering
Development and Behaviour of Unidirectional Double Hull Sandwich Plate System: Experimental Investigation

Heba El-Guendy
B.Eng. (Alexandria, Egypt)
Civil Engineering

Abdishakor Mohamoud Elmi
B.Sc. (Garyounis, Libya)
Civil Engineering
Analysis of the Temporal Transferability of Work Trip Distribution "Gravity Models"

*** Angelo Ferro**
B.Eng. (Carleton)
Civil Engineering
Rheology-Development and Behaviour of Unidirectional Double Hull Sandwich Plate System: Analytical Investigation

Ludovico Frattaroli
B.Eng. (Carleton)
Civil Engineering

*** Katherine Anne Lauter**
B.Eng. (Carleton)
Civil Engineering
Laboratory and Field Investigation of the Effect of Cold Place Recycled Asphalt on Transverse Cracking

Omran R. Maadani
B.Sc. (Al-Fateh, Libya)
Civil Engineering
Rheology - Covercrete: A Concept for Controlling Quality and Durability of Concrete

Sharfuddin Jangi Syed
B.Sc.Eng. (East Pakistan University of Engineering and Technology)
Civil Engineering
Factors Affecting Public Transit Ridership

Philip Andrew Weber
B.Eng. (Carleton)
Civil Engineering
Towards a Canadian Standard for the Geometric Design of Speed Humps

*** Mahbubul Alam**
B.Sc., M.Sc. (Dhaka, Bangladesh)
Electrical Engineering
Performance of Multirate CDMA Transmission in Cellular Environment

*** Robert Au-Yang**
B.Eng. (McMaster)
Electrical Engineering

Adrian John Bergsma
B.Eng. (Carleton)
Electrical Engineering
A Comprehensive Design Method for Dual Gate MOSFET Mixers

*** David François Caron**
B.C.S. (Carleton)
Electrical Engineering
Generating a control/data-flow graph representation of a circuit from VHDL for use in circuit synthesis

*** Dragos Cartina**
B.Eng. (Technical University Iasi, Romania)
Electrical Engineering
Characterization and Digital Correction of Multi-Stage Analog-to-Digital Converters

Arati Chandrasekhara
B.Eng. (Barkatullah, India)
Electrical Engineering
Design and Implementation of a Group Demultiplexer for Satellite Applications

Ada Mun-Yee Che
B.Eng. (Carleton)
Electrical Engineering

Reginald Edmund Grayston
B.Eng. (Carleton)
Electrical Engineering
High-Efficiency Class E Amplifier Employing Silicon Carbide MESFETs

Wen He
B.Eng. (Beijing Computer Insitute), M.Eng. (Chinese Academy of Railway Sciences)
Electrical Engineering
Computer Animation of Particles and Rigid Bodies

Charles Alexander Hubbard
B.Eng. (Carleton)
Electrical Engineering
Performance Bounds for Concurrent Software Modelled by Multiclass Queueing Networks with Simultaneous Resource Possession

Andrew W. Hunt
B.A.Sc. (Waterloo)
Electrical Engineering
Hyper-Codes: High-Performance Low-Complexity Error-Correcting Codes

*** Roni Khazaka**
B.Eng. (Carleton)
Electrical Engineering
High-speed Interconnect Analysis in the Presence of Incident Electromagnetic Fields

Sunitha Krishnan
B.Sc. (York)
Electrical Engineering
An Explicit Rate Control Algorithm and A Source Bandwidth Request Algorithm for the Transport of MPEG Video over ATM

Ming Leung
B.Eng. (Carleton)
Electrical Engineering

*** Haiyan Li**
B.Sc., M.Sc. (Southeast University Nanjing, China)
Electrical Engineering
Power Control in Cellular CDMA Systems

*** Robert Neil McKenzie**
B.A.Sc. (Toronto)
Electrical Engineering
A DRAM-Compatible Parallel Processor for Real-Time Video

Scott R. McLelland
B.Eng. (Carleton)
Electrical Engineering
Design and Evaluation of a Ka-Band Colpitts VCO for Wireless Communications

*** Douglas Stuart McPherson**
B.Sc. (Queen's)
Electrical Engineering
Ka Band Vector Modulator for LMDS Adaptive Feedforward Linearizer

*** Trevor P. B. M. Moat**
B.Eng. (Lakehead)
Electrical Engineering
Orthogonal Adaptive Digital Filters with Applications to Acoustic System Identification

François Moore
B.Eng. (McGill)
Electrical Engineering
Specialization in Software Engineering

Deborah Mary Rockwood
B.A.Sc. (Waterloo)
Electrical Engineering
Measurement and Characterization of Radio Channels in Fixed Wireless Access at 2 GHZ

*** Mohammad Salahuddin**
B.Eng. (Carleton)
Electrical Engineering
Simulation and modeling of the structure and surface profile of sputtered refractory films for VLSI barriers

*** Mazda Salmanian**
B.Sc. (Ohio State)
Electrical Engineering
Inverse Multiplexing of IS95 Traffic for Video Transmission

*** Fahim Asrar Sheikh**
B.Eng. (Carleton)
Electrical Engineering
Sensitivity Analysis of Performance Predictions for Distributed Applications

*** Xiao Wen Wu**
B.Sc. (Xi'an Jiaotong, China)
Electrical Engineering
Video Transmission over Wireless CDMA Networks

Wen Zhao
B.Eng., M.Eng. (Jilin, China)
Electrical Engineering
Design and Management of Wireless ATM Networks

Karl William Griffin
B.Eng. (Carleton)
Materials Engineering
Fabrication and Characterisation of a Hoop Reinforced, Continuous SiC Fibre, Titanium Matrix Composite Produced by Filament Winding and Hot Isostatic Pressing

*** Greg Barber**
B.Eng. (Carleton)
Mechanical Engineering
Permability of a Segmented Polyether-Polyurethane to Decamethyltetrasiloxane into Bovine Blood

Michael Robertson Campbell
B.E.Sc. (Western Ontario)
Mechanical Engineering
Experimental and Analytical Study of a Loss of Coolant Accident with a Simulated CANDU Passive Containment

*** David Kristopher Ellis**
B.Eng. (Carleton)
Mechanical Engineering
Development of a Command Validation Algorithm

*** Željko Knežević**
B.Eng. (Belgrade, Yugoslavia)
Mechanical Engineering
Optimization of the Tractive Performance of Four-wheel-drive Tractors-theoretical analysis and experimental substantiation

*** Marco A. Pego-Guerra**
B.Eng. (ISPJAE, Cuba)
Mechanical Engineering
Die Casting Design: A Parametric Approach

Rong Wang
B.Sc. (Tongji, China)
Mechanical Engineering
A 3D Phase Field Simulation of Solidification

*** Hong Fang Zhu**
B.Eng. (Shanghai Univ. of Science and Technology, China)
Mechanical Engineering
An Immersed Interface Method Algorithm with Discontinuous Coefficients for the Energy Equation

*** Chong Xie**
B.Eng. (Nanjing Inst. of Posts and Telecommunications, China)
Telecommunications Tech. Management

Bachelor of Engineering

(presented by Professor M.J. Bibby, Dean of the Faculty of Engineering and Design, assisted by representatives of Departments)

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AEROSPACE

Randall Wayne Armitage

Dion Guy Bozec

Michael Jason Breger

Sherree Lynn Burr

Jeffrey Glenn Coleman

Roland Pierre Comeau
B.Eng. (Technical University of Nova Scotia)

Jonathan Colin Cook

Christopher Cosgrove
with high distinction

*** Constantinos Kyros Coursaris**

Kyle Russell Duncan

Curt Robert Eaton

Mark Ermenc

Sam Keith Fournier
with distinction

Hailom Gebremeskel

Lily Ho

Robert Blake Hodgins
with high distinction

José Miguel Segundo Imbert Boyd
with distinction

Matthew Robert Killoran

Heath Jason Klippert
with distinction

Brian James Landry

Stephen Mabee
with distinction

Daniel James M^cKinley

Tyler James Paradis

Jason D. Parker

Christopher Anton Perabo

Ian Paul Saunders
B.Sc. (Acadia)

Darren Timothy Séguin

James Troy Smith
with distinction

Sean Cameron Spryszak
B.Sc. (Manitoba)
with distinction

Ian J. Stewart

John Paul Tremblay
with distinction

Peter F. Weaver

Suzanna Leigh Wilson
with distinction

Nadine Marie Zackodnik
with distinction

CIVIL

*** Maria Bonanni**

*** Michael P. Brady**

*** Sean Marc Daigle**

Tracy Jean Day
B.A. (Saskatchewan), B.Arch. (Carleton)
with high distinction

Scott Everett Funnell
Concentration in Management
with distinction

Daniel Ghebre-Medhin

Leng Ha
with distinction

Kirby Wayne Hall
Concentration in Management
with distinction

Christopher Hendry
with distinction

Michael David Keating

Bamdad Keshavarzi

Kuai Wa Lai

Adrienne Mairs

*** Laura M^cCaw**

*** Mihailo Mihailovic**

James Keith Steele
Concentration in Management

* James William Preston Sulpher

* Shu Kin Ken Szeto

* Swee Siong Tong

Carmen Marie Njeri Trott

* Anita Leonora VanBarneveld
Concentration in Management

Neil F. Wakil
Concentration in Management

Su Guan Yeoh

* Nor Arfian Yusof
Concentration in Management

COMPUTER SYSTEMS

Elias Ahmed
with high distinction

Scott Barnaby

Matthew Charles Boyle

Marek Buchler
with high distinction

Michael James Carl

Jason Adam Cawthray

Tsim Fung Alvin Choi
B.Eng. (Carleton)

James Chow
with high distinction

Chaka R. J. Clarke
B.Eng. (Carleton)

Federico Colasante
B.Sc. (Ottawa)
with high distinction

Jason Côté
with high distinction

Feng Deng
with high distinction

Dat Doan
with high distinction

Jan-Marie Ellison

Meliha Ferhatbegovic
with high distinction

Yiu Chung Kelvin Fung

Karunaharan Ganesharatnam
with distinction

Hoa Cuong Hang

Sanil Kumar

Matthew Earl Lamourie
with high distinction

Ka-On Lee
with distinction

Peter Leflar

Roderick Stephen Livingstone
B.Sc. (Carleton)
with high distinction

Jeffrey Thomas Marcellus
with high distinction

Steven James McRoberts
with high distinction

David William Mennie
with distinction

Julie Lyn Neimanis
with distinction

Karthigesu Niranjan

Yasotha Raguvaran
with distinction

Senthilvanan Ratnasabapathy

Joseph Skaff
with high distinction

Adam Smythe

George Sugar

Jeffrey Michael Taylor
with high distinction

David Peter Tregunno
with high distinction

Lorelei M. Villanueva

Isaac Wong

ELECTRICAL

* Abdiwali Hassan Ahmed

Rami Al-Hussieni

Muhammad Ali
with distinction

* Peter Andreadis

Sriskanthan Balakrishnan

* Sugumar Balasingham
with distinction

Sivarajah Balasubramaniam

Michel Beshara
with high distinction

Philippe Bujold
B.Sc. (Ottawa)
with high distinction

Aleksandra Cangalovic

Shavak Chandra

Kenneth Chien Wei Chang
with distinction

Carrie Lynn Charette
with high distinction

Yuh Ren Choo

Ross Graham Dickson
with distinction

Aroosh Elahi

Warren Neil Faire
with distinction

Solomon Gebru

Siau Tong Goh

Sonia Grover

Ahilan Guhanathan

Jayasri Gunaratnam

* Sonika Gupta

* Abdirizak Haji Abdullahi

John Vichharavong Hang
with high distinction

Kasippillai Hariharan

Joseph André Mario Hébert

Lysianne Howarth
with distinction

Jonathan Hughson
with high distinction

Syed Sadat Hussain
with high distinction

Benjamin Iong

* Ali Abdi Jama

Kwok-Leung Jim

Anne Kumar
with high distinction

Nathan Lam

* Jason Garrett Lambert
Concentration in Management

Kevin Kin-On Lee

Shaw Siang Eric Lim
with distinction

Chu Hean Raymond Looi

Harvey Mah
B.Eng. (Carleton)
with high distinction

Arunthavaraj Markandu

Dwayne John McNulty

Liban Abdullahi Mohamed

Perry F. Moore
B.Eng. (Memorial)

John E. Morton
with distinction

* Balaganesh Nadarajah

Irfan Nasir

Giao Manh Nguyen
with distinction

Uyen Nguyen
B.Eng. (Carleton)
with distinction

Ali Osman Ors

Jebanathan Periathamby

Seng Phung Lu
Concentration in Management

*** Bipin Pillay**

*** Thang Quach**

*** Grzegorz Remisz**

Jeff Simpson

Andrew William Stewart

Malcolm Stewart
with high distinction

Siew Pieng Priscilla Tee

*** Almaz Tesfamariam**

Xuong Tran

Scott Turnbull
with distinction

Kim Hieng Ung

Manoharan Vijayaratnam

Bruce Voss

Peter Zhi Jiang Wang

Chi Chung Wong

Eric Wong

Jason Yamazaki
with high distinction

Chen Ying

Seon Him Yip

Jeff Zeng

ENVIRONMENTAL

George Blow

Wesley W. Bova

*** Moody Trent Burton**

Cindy R. Cabral

Lorie J. Cummings
B.A. (McGill)
with high distinction

*** Diana S. Dolezal**

Leslie Gordon Forrest

Andrej Gombar
with distinction

Carolyn Emily Haddock
with distinction

Andrew Mark Harwood

*** Carrie-Ann Hubbs**

Heather Knudsen

Michael Layer

*** Michael Stretton Marcotte**
with high distinction

Ramogodi I. P. Motoma
with distinction

Lianne Maria Noseworthy
with distinction

Andrew James Reid

Heather Lynn Stewart

*** Sarah Maryanne Ternan**

Anne-Marie Thompson
with high distinction

Colin Welburn
with high distinction

MECHANICAL

*** Mahmoud Al-Riffai**

Craig Quinn Anderton
Concentration in
Computer-Integrated Manufacturing

Alexander E. L. Arnold
B.A. (Waterloo)
with distinction

*** John Conrad Bauer**
B.Sc. (Royal Military College),
M.Eng. (Carleton)
with high distinction

Kimberley D. Bucci

*** James Michael Carriere**

Robert Jason Cole

Daniel A. Froman

Bernd Gentemann

*** Jeffrey Raymond Girard**

Fadi Hajjar
Concentration in
Computer-Integrated Manufacturing

*** Sean G. Hay**

Brian Jewell
Concentration in Management

Erik Dieter Keuthen

Raymond J. LeBlanc

David J. Y. Leung
with distinction

William Brent Lievers
with high distinction

*** Wai-Hang Louie**

*** Thomas E. Miller**

Chris A. Moore

Gregory William Mumford

David Mundt
B.A. (Carleton)

*** Nicholas George Nelson**

Ka Hing Pang
Concentration in
Computer-Integrated Manufacturing

Neal G. Papke
with high distinction

*** Renyuan Peng**
Concentration in
Computer-Integrated Manufacturing

Agustina Prawirosoehardjo
with high distinction

Jana Lynn Regenwetter

David Reilly

Darren D. Ricci

Timothy A. Sadler

Sherry Ann Silliker

Maurizio David Sottile

*** Robin G. F. Steed**

Jan Paul Straznicky
with distinction

Etienne Tardif

Dylan N. Thomas
Concentration in
Computer-Integrated Manufacturing
with high distinction

Stephen Alexander Tweed

Randy Van Der Starren
Concentration in
Computer-Integrated Manufacturing

Michael Peter Wagle
Concentration in Management

Robert Bruce Weber

Aaron Scott Wilcox

Ryan Douglas Alexander Wires
Concentration in
Computer-Integrated Manufacturing

Scott Andrew Yandt
with distinction

*** Rhoda Yue**
Concentration in Management

Andrew Zettel
Concentration in
Computer-Integrated Manufacturing

Bachelor of Architecture

(presented by Associate Professor J. Benjamin Gianni, Director of the School of Architecture)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Maurice Agar

* Caroline Alder
with distinction

Jammy E. Arthur

* Sheldon Darren Baker
with distinction

Shannon Bassett
with distinction

Jacqueline Juliette Belliveau
B.A.(Queen's)
with distinction

Catherine Elizabeth Blake

Oliver Bollmann
with distinction

Stephanie Elaine Calvet
with high distinction

Peter W. Caudle
with distinction

Edward Chan
B.Sc. (Concordia)

Bradley Stuart Chase
with high distinction

Edwin H. T. Chung
with high distinction

* Susan Rebecca Coles

Darrell de Grandmont

Danielle M. Dewar

Dino Di Sano
with distinction

James David Douglas
with distinction

Tan Hoi Duong
with distinction

David E. Echaiz-McGrath
B.Env.Des. (Manitoba)
with distinction

Sean Michael Gale
B.A. (Syracuse)
with distinction

Julien Kahlil Geoffroy
with high distinction

Vera Christina Gudelj
with distinction

Janis Hamacher
B.A. (Carleton)
with distinction

Caohan Hang
with distinction

* Dirk Hartmann
with high distinction

Christopher Michael Havers

Dipna Horra
with distinction

Todd Cameron Jackson
with distinction

Eric P. Jofriet
B.A.(Concordia)
with distinction

Ryan Koslowski
with distinction

Susan Kulba
with distinction

Francine Lafleur
with distinction

Mimi Lai

Henry Lau

Benjamin Lee

Ka Yan William Leung
B.A. (Queensland)

Janice Mary Li
with distinction

Justin Chun-Shing Lui
with distinction

Christopher M. Lyle

Lucyna Mach
with distinction

Christopher Shawn Douglas McCullough
with distinction

Laurie McMillan

* Russell Douglas Moore
with distinction

Shida Nouraie

Graham O'Brien

Arnold Ortiz
with distinction

Melanie L. Rank
with distinction

Enric Ribas

Katherine Robinson
with distinction

* Geoffrey Andrew Ross
with distinction

Judith Sanz-Solé

Richard Wayne Shean
with distinction

Patrick David Trottier
with distinction

Louis M. Trudel
with high distinction

Nicholas A. Tryfon

Emmanuelle Ermelinda Van Rutten
with high distinction

Froilan Apostol Vicente

Milena Deanna Vujanovic
with high distinction

Sandi Wiley
with high distinction

Charlene A. Wilson
with high distinction

Nancy Wong

Troy W. Wright
with high distinction

Simon H. Wutherich
with distinction

* Deborah Jean Yates

Doris Yeo

Anita Zaborski

Bachelor of Industrial Design

(presented by Associate Professor Brian P. Burns, Acting Director of the School of Industrial Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Bryce Ashdown
with high distinction

Raza Ahmed Bashir
B.Sc. (Ottawa)
with distinction

Monica Noelle Baxter

Stephen Patrick Bolt
with distinction

James Angus Carruthers
with distinction

Alexander John Felso

Scott W. S. Gales
with distinction

Marc Christian Gauthier
B.Sc. (Ottawa)

Stephen Randall Gay

Stavros Iliadis

Nicholas J. D. Imrie
B.Sc. (Dalhousie)
with distinction

Maciek Kepka
with distinction

Nicolas Heath Koeppe

Shawn Lipstein

Ainsley Terrence Martineau
B.Sc. (Waterloo)

Timothy John Maxwell
with distinction

Harold Raymond Pieroway

Marc David Pringle

George Emmanuel Rothschild
with high distinction

Michael Todd Seaby
with distinction

*** Robert M. St. Jules**

Nathalie Cecile-Marie Tambay

Michele Bluette Tommy
with high distinction

Allan D. Wille

Honorary Degree Recipient

Zdenek Johan, B.Sc., M.Sc., Ph.D.

Zdenek Johan, Scientific Advisor, Directorate of Research, BRGM, France, will be awarded the degree of Doctor of Science, *honoris causa*, at the afternoon ceremony on Thursday, June 11, "in recognition of a distinguished career as a scientist of international standing in the fields of mineralogy, geology of ore deposits and geochemistry."

Founders Award Recipient

Herbert H.J. Nesbitt, M.A., Ph.D., Sc.D., D.Sc., F.L.S., F.E.S.C., F.Z.S.

Herbert H.J. Nesbitt, Professor Emeritus of Biology and Emeritus Marshal of Convocation, will be presented with the Founders Award at the afternoon ceremony on Thursday, June 11, "in recognition of his dedication, generosity, and commitment to Carleton." Dr. Nesbitt was one of the University's very first professors and is a much honoured biologist and one of the world's foremost experts in the study of mites. He was the first Dean of the Faculty of Science, Clerk of Senate from 1975 to 1981, and for 50 years served as Marshal of Convocation. The Founders Award is given annually, when merited, and is the highest non-academic award offered by Carleton University.

Order of Proceedings
Thursday, June 11, 2:00 p.m.

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.

Processional Music
John Robert Coghill Sr., C.D. (bagpipes)
John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
Thomas J. Brown (snare drum)

O Canada*
(the audience is invited to sing)

Welcome by the Master of Ceremonies
John W. ApSimon, B.Sc., Ph.D.
Vice-President (Research and External)

Conferring of the Degree of
Doctor of Science,
***honoris causa*, upon**
Zdenek Johan, B.Sc., M.Sc., Ph.D.
(presented by David H. Watkinson, B.Sc., M.Sc., Ph.D., Professor of Earth Sciences)

Convocation Address
Zdenek Johan

Conferring of Degrees by Examination

Warrant
Chong H. Chan, B.S., M.A.Sc., Ph.D., P.Eng.
Clerk of Senate

Awarding of Medals

Conferring of the Founders Award upon
Herbert H.J. Nesbitt, M.A., Ph.D., Sc.D., D.Sc., F.L.S., F.E.S.C., F.Z.S.
Professor Emeritus of Biology and Emeritus Marshal of Convocation
(presented by Gail Larose, B.A., M.A., Past-President, Alumni Association)

Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!

True patriot love in all thy sons command.

With glowing hearts we see thee rise,

The True North strong and free!

From far and wide, O Canada,

We stand on guard for thee.

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

Recipients of Degrees

Doctor of Philosophy

(presented by Professor R.C. Blockley, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Justin Anthony MacDonald
B.Sc. (Mount Allison)
Biology
Enzyme Thermal Adaptations and Signal Transduction Involvement in Ground Squirrel Hibernation
Supervisor: K.B. Storey

*** Behnaz Behrouzian**
B.Sc. (Teacher Training University, Iran), M.Sc. (Shahid Behesty, Iran)
Chemistry
Novel Probes for the Mechanistic Study of Fatty Acid Desaturases
Supervisor: P.H. Buist

Kyra Juliana Cowan
B.S.c. (Ottawa)
Chemistry
Evidence for the reversible phosphorylation control of Metabolism during prolonged environmental stress
Supervisor: K. B. Storey

Judy Elizabeth Douglas
B.Sc. (Carleton)
Chemistry
Design, Synthesis and Characterization of Naphthalene-Based Poly(Aryl Ether)s
Supervisor: Z.Y. Wang

*** Christopher E. B. Evans**
B.Sc. (Carleton)
Chemistry
An Investigation of Superexchange in Dinuclear Ruthenium Complexes
Supervisor: R.J. Crutchley

*** Robert Thompson O'Brien**
B.Sc. (St. Francis Xavier)
Chemistry
Ionization Induced Regioselective Dechlorination Reactions of Polychlorinated Biphenyls
Supervisors: M. Siu and B.R. Hollebone

Laurence M. F. Suzzarini
Ingénieur Chimiste, (ENSCM, France)
Chemistry
Ketene Chemistry and Applications to Polymer Systems
Supervisor: Z.Y. Wang

*** Elizabeth Ann Dunworth**
B.Sc. (Durham), M.Sc. (Leeds)
Earth Sciences
The Turiy Peninsula, Kola Peninsula, Russia: Open-system disequilibrium
Supervisor: Keith Bell

*** María Verónica Irigoyen**
M.Sc. (Buenos Aires, Argentina)
Earth Sciences
Magnetic polarity stratigraphy and geochronological constraints on the sequence of thrusting in the Principal and Frontal cordilleras and the Precordillera of the Argentine central Andes (33 S lat.)
Supervisor: R.L. Brown

*** Brian James Moorman**
B.Sc. (Carleton), M.Sc. (Calgary)
Earth Sciences
The Development and Preservation of Tabular Massive Ground Ice in Permafrost Regions
Supervisor: F.A. Michel

*** Osman Salad Hersi**
Laurea, (Somali National University), Ph.D. (Florence, Italy)
Earth Sciences
Stratigraphic Revision of Upper Chazyan to Trentonian Succession, and Sedimentologic and Diagenetic Aspects of the Blackriveran Strata, Ottawa Embayment, Eastern Ontario, Canada
Supervisor: G.R. Dix

*** Fons Jozef Schellekens**
B.Sc., M.Sc. (State University of Utrecht, The Netherlands)
Earth Sciences
Fundamentals, Accuracy and Input Parameters of Frost Heave Prediction Models
Supervisor: J.K. Torrance

Shafiu Jibrin
B.Sc. (Bayero, Nigeria), M.Sc. (Windsor)
Mathematics
Redundancy in Semidefinite Programming
Supervisor: Irwin Pressman

*** Chong Xin Zhong**
B.S. (Yangzhou Teacher's College), M.S. (East China Normal, China)
Mathematics
Empirical Likelihood Inference Under Stratified Sampling
Supervisor: J.N.K. Rao

Kevin James Lenton
B.Sc., M.Sc. (London, U.K.)
Physics
Hydroxyl Radical Scavengers and Antioxidants in Radiation Protection
Supervisor: C. Greenstock

Daryl Herbert Graf
B.Sc. (Calgary), M.C.S. (Carleton)
Computer Science
Manifold Constraints: A Paradigm for Connectionist Computation
Supervisor: John B. Oommen

*** Govindachari Raghunath**
B.Sc. (Madras, India), M.C.A. (Hyderabad, India)
Computer Science
Two-level Resource Management for OGS Support in Multimedia Workstations
Supervisors: Murray Woodside and John Neilson

Master of Science

(presented by Professor R.C. Blockley, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Katrina D. Campsall
B.Sc. (Guelph)
Biology
Cloning and Characterization of *sbr*: A New Colonial Mutant of *Neurospora crassa*

*** Satoko Hayashi**
B.Sc. (Saitama University, Japan)
Biology
Enrichment of Salmonella in poultry for detection by polymycin-cloth enzyme immunoassay

Christopher Edward Parent
B.Sc. (Guelph)
Biology
The Effects of Human Disturbance on Eastern Massasauga Rattlesnakes (*Sistrurus catenatus catenatus*) in Killbear Provincial Park, Ontario

Brian Anthony van Adel
B.Sc. (Carleton)
Biology
Specialization in Neuroscience
Commissural Projections of the Nuclei of the Lateral Lemniscus and Neuronal Degeneration Following Midline Transections in the Adult Rat

Pierre Regis Desjardins
B.Sc. (Waterloo)
Chemistry
Novel Mononuclear Ruthenium Bisphenylcyanamide Complexes-Precursors to a Molecular Switch

Audrey Dallimore
B.Sc. (Queen's)
Earth Sciences
Holocene Environmental History of Thermokarst Lakes on Richards Island: Thecamoebians as Paleolimnological Indicators

Zsuzsanna Magyarosi
B.Sc. (Brock)
Earth Sciences
Metamorphism of Proterozoic Rocks Associated with the Sudbury Structure

Richard Brunet
B.Sc., M.Sc. (Laval), Ph.D. (Carleton)
Information and Systems Science
Temporal Alarm Correlation in Communication Networks

Olivia Das
B.Sc., M.Sc. (Calcutta, India)
Information and Systems Science
Performance and Dependability Analysis of Fault-Tolerant Layered Distributed Systems

Brian Eric Hermansen
B.Sc.Eng., M.Eng. (New Brunswick)
Information and Systems Science

*** Wei Jiang**
B.Sc., M.Sc. (Peking University, Beijing), Ph.D. (Ottawa)
Information and Systems Science

Nong Li
B.Eng. (Hefei University of Technology, China), M.Eng. (Northeast Institute of Heavy Machinery, China), Ph.D. (Ottawa)
Information and Systems Science

*** Yanrong Li**
B.Eng. (Shanghai Jiao Tong, China)
Information and Systems Science
Network Configuration Management in Heterogeneous ATM Environments

*** James Robson Paulin**
B.A., M.B.A. (Toronto)
Information and Systems Science
Performance Evaluation of Concurrent OLTP and DSS Workloads In a Single Database System

*** Ming Qin**
B.Eng. (Bath, United Kingdom), M.Sc. (Queen's)
Information and Systems Science
Automatic Generation of Performance Models for Distributed Application Systems

John William Schwarz
B.Sc. (Waterloo)
Information and Systems Science
Classification of Hyperspectral Data

Xinxin Sun
B.Eng. (Tsinghua, China), Ph.D. (Institute of High Energy Physics, China)
Information and Systems Science

Qi Wang
B.Sc. (Eastern Michigan)
Information and Systems Science

Boquan Xie
B.Sc. (Beijing Normal, China), M.Sc. (Shanghai Observatory, China)
Information and Systems Science
Hierarchical Architecture for Parallel Query Processing on Networks of Workstations

Xiyue Zhang
B.Sc. (University of Science and Technology of China)
Information and Systems Science
Tool for Task Allocation and Scheduling in Hard Real-Time Systems

Ellen Yanqing Zheng
B.Math. (Xiamen, China), M.Sc. (Ottawa)
Information and Systems Science

Magdalena Gabriela Grabari
B.Sc. (Carleton)
Mathematics

Hyang Mi Kim
B.Sc., M.Ed. (Sookmyung Women's University, Korea)
Mathematics

Pierre Daniel Beaulne
B.Sc. (Carleton)
Physics
A Study of $K^{\circ}_{S} K^{\circ}_{S}$ Pairs in Multihadronic Z° Decays with the OPAL Detector at LEP

Sheri Nadine Boyden
B.Sc. (St. Francis Xavier)
Physics
Investigation of Adaptive Response in Human Tumour and Normal Cell Lines with Varying Radiosensitivity

Genevieve Hay
B.Sc. (Toronto), M.B.A. (Western Ontario)
Physics
f_0 (1370) Resonance Contribution to Final State Interactions in the Reaction $\gamma\gamma \to \pi\pi$

*** Roger Henri Woods Thomas**
B.A. (East Carolina, U.S.A.)
Psychology
Specialization in Chemical and Environmental Toxicology
Factors Influencing Hazardous Household Waste Disposal

Master of Computer Science

(presented by Professor R.C. Blockley, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Eugen Mate Bacic
B.C.S. (Carleton)
The Generic Policy Engine

Hongling Chen
B.S. (Xi'an Electronics Technology, China)
Inter-route Optimization Procedures for the Dial-A-Ride Problem in Paratransit

*** Scott David Cowan**
B.C.S. (Carleton)
Automated White-box Cluster Testing Using Message Sequence Charts '96

Lamis Mahmoud Farrag
B.Sc. (American University, Cairo)
Application of Graph Partitioning to Terrain Visibility and Shortest Path Problems

*** Gerald Christopher Hurdle**
B.Sc. (Calgary)
Introducing Fireworks: A Tool for Regression Testing within the Smalltalk Environment

*** James Hyjek**
B.C.S. (Concordia)
Automation of Object Behavior Validation

Gautam Jain
B.E. (Bangalore, India)
Visualization and Performance of Dynamic Multipaging Algorithms

*** Kamala Kumari Kotapati**
B.Sc., M.C.A. (Osmania, India)
The Buffer Management in Wormhold-Routed Torus Multicomputer Networks

Ravi Hunjanal Krishnamurthy
B.Eng. (Bangalore, India)
Region Separation and Contour Racing Techniques for Colored Raster Images

Christopher Melvin Lambert
B.Sc. (Memorial)
SQL2Java: SQL Access to a Java-based Database System

Kevin M^{c}Guire
B.C.S. (Carleton)
Implementing Complex User Interfaces-An Object Relationship Approach

*** Patrick Ryan Morin**
B.C.S. (Carleton)
Two Topics in Applied Algorithmics

*** Cynthia Lynn Sawchuk**
B.C.S. (Carleton), B.A. (Alberta), M.A. (Queen's)
An Investigation of Two Responsive Learning Automata In a Network Game with no A Priori Information

Sijun Zeng
B.Sc. (Zhengzhou, China)
Centralized Architecture for Query Processing on Network Workstations

Bachelor of Science (with Honours)

(presented by P.J.S. Watson, Dean of the Faculty of Science, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

BIOCHEMISTRY

Mastaneh Azad
Honours

*** Seema Bissoon**
Highest Honours

Kenzie Daniel M^{ac}Isaac
Highest Honours

Michael J. Page
Highest Honours

Mahmoud Salkhordeh
Honours

BIOCHEMISTRY AND BIOTECHNOLOGY

Andrea E. Gay
Highest Honours

Rafal M. Iwasiow
High Honours

Liisa Johns
Highest Honours

Michael Moore
Honours

*** Shahriar Saeedi**
Honours

Manish Sood
Highest Honours

Amy Jennifer Ward
Highest Honours

BIOLOGY

Jennifer A. Armour
Honours

Mary-Lynn Jennifer Berndt
High Honours

Sheanna Brady
Honours

Kathy Cepo
Honours

Edwin Chock
Honours

Lorraine Alyssa Fair
Honours

Debbie Martin
Honours

Wendy Prichett
B.Sc. (Carleton)
Honours

Leah J. Stachow
Honours

Andrea J. Trottier
Highest Honours

Carolyn Mary Williams
Honours

Zafeiroula Zygoumi
Honours

BIOLOGY AND BIOTECHNOLOGY

Dalibor Breznan
High Honours

Mohamad Reza Dehghany
Honours

Mercy Ashokor Osabu-Kle
Honours

Nicholas J. Pokorny
High Honours

Marcella M. Reynolds
Honours

BIOLOGY AND GEOGRAPHY

Jennifer Grace Preece
Highest Honours

BIOLOGY AND PSYCHOLOGY

Carolyn Heather Bonta
Highest Honours

Wayne Cassidy
High Honours

Kerry L. Ferguson
High Honours

Jennifer Graham
Honours

Sandra Lee Lefebvre
B.A. (Ottawa)
Highest Honours

CHEMISTRY

James G. Arnold
Honours

Leanne Lynn Doiron
Highest Honours

Charles Clifford Greenough
Honours

Emmanuel Nii Ayerh Osabu-Kle
Honours

Shawn Pearson
Honours

ENVIRONMENTAL SCIENCE

John Edward Charles
Honours

Madeleine Anne Denis
High Honours

Robina Ann Duermeyer
Honours

Kristal Claire Dunning
High Honours

* Katherine Fleming
Honours

Adam Carvell Fritz
High Honours

Motoko Higuchi
Honours

Lori Macadam
Honours

Greg John Mason
Highest Honours

Ian Douglas Meredith
Highest Honours

Claire Alison Milloy
High Honours

Jennifer Elizabeth Moorehead
Honours

Larissa Saira Parriag
High Honours

Daniel Spooner
Honours

Jana H. Svec
High Honours

GEOGRAPHY

Matthew Austin Healey
Honours

Julie Alicia Truelove
Honours

GEOLOGY

Norah Chantelle Brown
High Honours

Barbara Baran Crawford
Honours

Shawn Donaldson
Honours

Christopher James Hemmingway
High Honours

Niranjala Kottachchi
Honours

John A. Labrecque
Honours

Jason Rickard
Honours

Christopher Rogers
Honours

Martin Lee Stewart
Highest Honours

Scott Andrew Whattam
Honours

GEOLOGY AND GEOGRAPHY

Cyndi Janine Prince
Honours

INTEGRATED SCIENCE STUDIES

Maybeline L. Chan
Highest Honours

Matthew A. DeAngelis
Highest Honours

Alan Chun Wah Tang
Honours

* Saeed Zandvakili
Honours

COMPUTER SCIENCE AND MATHEMATICS

* Curtis Thomas Birtch
Honours

Bryan James Crapper
High Honours

Hoai Van Ho
Honours

Daniel Smith
Highest Honours

MATHEMATICS

Rahmatullah Fahimi
High Honours

MATHEMATICS AND PHYSICS

Coire Douglas Cadeau
Highest Honours

STATISTICS

Andrew Williams
High Honours

PHYSICS

Jennifer Barker
Honours

David Irwin Hodgson
Honours

Kenneth Sean Ozard
High Honours

PSYCHOLOGY

Jason Lewis
Honours

Arron W. Service
Honours

Christina Marie Thomas
Highest Honours

Alenka Zoric
Honours

Bachelor of Science

(presented by P.J.S. Watson, Dean of the Faculty of Science, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

BIOCHEMISTRY

Daniel George Desjardins
Biochemistry

Debbie Ka Yee Lam
Biochemistry

Dung Phuong Le
Biochemistry

Deborah Moon
Biochemistry

BIOLOGY

Linda Barlow
Biology

Julie Dwyer
Biology

*** Don Stuart Kerr**
Biology

Kelly M'Kinlay-Key
Biology

*** Justin Owen**
Biology

Derek Ryan Stack
Biology

*** Joseph B. Torre**
Biology

Anthony Andrew Volk
Biology

Haifa Zarrug
Biology

CHEMISTRY

Hiba Azzam
Chemistry

Ahela Balasundaram
Chemistry

*** Taryn Gunnlaugson**
Chemistry

Anita Vinothini Ignatius
Chemistry

Aziza Johar
Chemistry

Charmaine Lankadurai
Chemistry

Hamsavathni Poopalasingham
Chemistry

Gabriela Susana Rego
Chemistry

Maria A. Scalzo
Chemistry

Ramani Vilvarajah
Chemistry

George Kenneth Walton
Chemistry

GEOLOGY

Christopher Gazdik
Geology

Bradley James Alistaire Harvey
Geology

Martin H. Novak
Geology

Allison Stoddart
B.Sc. (Carleton)
Geology

Kaori Torigai
B.Sc. (Carleton)
Geology

INTEGRATED SCIENCE STUDIES

Sean Joseph Gilligan
Integrated Science Studies

Pamela Maelie Hols
Integrated Science Studies

Gerard Jones
Integrated Science Studies

Ryan Lawrence
Integrated Science Studies

*** Matthew Alexander Réaume**
Integrated Science Studies

Peter Bruce Smith
B.A. (Carleton)
Integrated Science Studies

Joseph Victor Veinotte
Integrated Science Studies

*** Roana Wu**
Integrated Science Studies

COMPUTER MATHEMATICS

Hasan Ahmed
Computer Mathematics

*** Wadah Al-Ghosen**
Computer Mathematics

*** Martin Liam Casey**
Computer Mathematics

Wen-Hsiung Cheng
Computer Mathematics

*** Blair Christie**
B.A. (Carleton)
Computer Mathematics

Murukathas Gunaratnam
Computer Mathematics

Mafiz Ul Hoque
Computer Mathematics

*** Wing Yip Leung**
Computer Mathematics

Chun Wai Liu
Computer Mathematics

Candice Rebecca Lohe
Computer Mathematics

Jennifer Macdonald
Computer Mathematics

*** Laurie MacPherson**
Computer Mathematics

Don Mah
Computer Mathematics

*** Antonio Maio**
Computer Mathematics

*** Ian McLaughlin**
Computer Mathematics

Scott Milne
Computer Mathematics

*** Yin Gene Ong**
Computer Mathematics

*** Tanya Shadman**
Computer Mathematics

* Patrick Wong
Computer Mathematics

Lourdes Irene Vathsala Xavier
Computer Mathematics

Johnson Yau
Computer Mathematics

Hing Lung Hendry Yu
Computer Mathematics

MATHEMATICS

* Mona Abu-Zribeh
Mathematics

Chentura Balasubramaniam
B.Sc. (Carleton)
Mathematics

* Murugananthan Kathirithamby
Mathematics

* Lanny Man-Ho Lee
Mathematics

Ima Aifiye Okonny
Mathematics

STATISTICS

Allen Tze Ho Kwok
Statistics

Bernie Lam
Statistics

Pek Ian Un
Statistics

Alex Ka Wah Wong
Statistics

Becky Chiu Ling Wong
Statistics

PHYSICS

* Chentura Balasubramaniam
Physics

Douglas Allan Pruner
Physics

* Michael Robson
Physics

* David John Ship
Physics

Bachelor of Computer Science (with Honours)

presented by Professor Evangelos Kranakis, Director of the School of Computer Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Iain James Roger Bennett
Honours

*** Giuseppe Pino Caracciolo**
Honours

Robert David Cattral
High Honours

Stephanie Leanne Chafe
B.Comm. (Ottawa)
High Honours

*** Sheldon Dwayne Clarke**
High Honours
Co-operative Education

Robert Brian Cote
High Honours

Linda Marie Cummins
Highest Honours
Co-operative Education

Greg Cwintal
Highest Honours
Co-operative Education

Thi Minh Trang Dang
High Honours

Dilshan Joseph De Silva
Highest Honours
Co-operative Education

Frédéric Eric Desjarlais
Honours

Jaison Dolvane
Honours

Sean James Ebert
High Honours
Co-operative Education

Andrew Eidsness
High Honours
Co-operative Education

*** An Quoc Ho**
Highest Honours

Anthony Lawrence Jackson
Highest Honours
Co-operative Education

Peter William Krogh
High Honours
Co-operative Education

Hoi Yim Lau
B.Sc. (Carleton)
Honours

Geoffrey Wayne Longman
High Honours

*** Guy Marentette**
High Honours

*** Timothy James McGuire**
Highest Honours

Steve Milani
Highest Honours

*** Duc Khac Nguyen**
Honours

Gerald Timothy O'Neil
Honours

Patrick Oliver Parato
Honours

Dominique Plante
High Honours
Co-operative Education

James Robert Podgorski
Honours

Douglas Rider
High Honours
Co-operative Education

Shaun Sauve
Honours

Stefan Alexander Schurman
High Honours

Mark Sullivan
Honours

Chi-Ho Sung
Highest Honours

Mark Suska
Highest Honours
Co-operative Education

Hau Hung Tang
Honours

Karl Michael Taylor
Highest Honours
Co-operative Education

My K. Trinh
Highest Honours
Co-operative Education

Renata Urbaniak
High Honours

Hanh Vo
High Honours
Co-operative Education

Chris Ward
Highest Honours
Co-operative Education

*** Douglas Ronald Wenham**
B.Sc. (Concordia)
Honours
Co-operative Education

*** Wang Yik Wu**
Honours

Kumanan Yogaratnam
Highest Honours
Co-operative Education

*** Peter Chung Ming Young**
Honours

Leying Zhu
Highest Honours

The following awards were made by Senate after publication of the 1997 Fall Convocation program.

Doctor of Philosophy

Gregory Lorne Craig
B.A. (St. Thomas), M.A. (Carleton)
Psychology
Inhibiting Reflexive Saccades to Peripheral Targets: Effects of Fixation Offset on the Gap Effect
Supervisors: C. Herdman and L. Stelmach

Master of Arts

Jelena Radosavljevic
B.A. (Belgrade, Yugoslavia)
International Affairs

Master of Engineering

Paul Steeves Collins
B.Eng., (Ryerson Polytechnic)
Civil Engineering
Triaxial Compression of Speciments Composed of Sand and Lightweight Aggregates

Qin Liu
B.Sc., (Dalian University of Technology, China)
Civil Engineering
A Study of Seismic Design Code Provisions for Highway Bridges

Li Yu
B.S. (Tsinghua University)
Electrical Engineering
A Novel Adaptive Mismatch Cancellation system for Quadrature IF Radio Receivers

Master of Science

Rosalie Ellen Labelle
B.Sc. (Carleton)
Psychology
The Connectivity and Ultrastructure of the Dorsal Nucleus of the Lateral Lemniscus of the Albino Rat

Bachelor of Arts

Neil MacLeod
Law and Political Science

David Edward Fisher
Law

William Douglas Graham
Psychology

Amanda Jane Robison
Psychology and Sociology/Anthropology

Adhi Wauran
Economics

Bachelor of Engineering

Helen Frances Braiter
Environmental Engineering

Normand Legault
Civil Engineering
Concentration in Management

Jason Alexander MacGregor
Civil Engineering

Medallists in the Graduating Class

The Governor General's Medal – Bachelor's Level
Awarded annually to the student standing at the head of the graduating class at the bachelor's level.
Donor: His Excellency the Governor General of Canada

Daniel Smith
Honours B.Sc. Computer Science and Mathematics

The Chancellor's Medal
Awarded annually in the name of the Chancellor of the University to a graduating student of outstanding academic achievement.

Daniel Smith
Honours B.Sc. Computer Science and Mathematics

The President's Medal
Awarded annually in the name of the President of the University to the student with the highest standing in a pass program of studies.

Kiley Vanessa Turner
Film Studies

University Medal for Outstanding Graduate Work – Ph.D. Level
Awarded, when merited, for outstanding graduate work at the doctoral level.

Behnaz Behrouzian
Chemistry

University Medal for Outstanding Graduate Work – Master's Level
Awarded, when merited, for outstanding graduate work at the master's level.

Brian Anthony van Adel
Biology

University Medals (Undergraduate)
Awarded annually, when merited, to the graduating students standing highest in interfaculty studies, arts and social sciences, public affairs and management, science, engineering, architecture, commerce, computer science, industrial design, journalism, music, public administration, and social work.

University Medal in Interfaculty Studies
Jennifer Grace Preece
Honours B.Sc. Biology and Geography

University Medal in Arts and Social Sciences
Christopher Jason Throop
Honours Anthropology

University Medal in Public Affairs and Management
Peter Horst Gray
B.Com. (Concentration in Information Systems)

University Medal in Science
Andrea J. Trottier
Biology

University Medal in Computer Science
Anthony Lawrence Jackson
Software (Co-operative Education)

University Medal in Commerce
Nina Rybczynski

University Medal in Engineering
Marek Buchler
Computer Systems Engineering

Senate Medals

Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level

Daryl Herbert Graf
Computer Science

James Xiang Lee
Aerospace Engineering

Rosemary Elizabeth Warskett
Sociology

Ann Elizabeth Penner
Political Science

Master's Level

Fahim Asrar Sheikh
Electrical Engineering

Xiyue Zhang
Information Systems Science

Jill St. Germain
Canadian Studies

Robert J. Opp
International Affairs

Undergraduate Level

Dat Doan
Computer Systems Engineering

Jennifer Anne Veall
Honours Linguistics

Al-Nawaz Z. Nanji
Commerce (Concentration in International Business)

Pamela Louise Ramage-Morin
Honours Sociology

Robert Blake Hodgins
Aerospace Engineering

Peter Michael John Weylie
Honours Economics and Political Science

Linda Marie Cummins
Computer Science (Software Co-operative Education)

Kenzie Daniel MacIssac
Honours Biochemistry

Steven James McRoberts
Computer Systems Engineering

Noga Zaitzov-Hassin
Commerce (Accounting)

Christine Marie Thomas
B.Sc. Honours Psychology

Wendy Yee
Commerce (Accounting)

Kimberley Anne Brayman
Psychology

Chad Frederick Milne
Economics

Manish Sood
Honours Biochemistry and Biotechnology

Richard William Morin
Honours Psychology

Liisa Johns
Honours Biochemistry and Biotechnology

Leighann Carole Neilson
Honours Interdisciplinary Studies

Lorie J. Cummings
Environmental Engineering

Ian Douglas Meredith
Honours Environmental Science

Nadine Natacha Belzile
Honours Anthropology

Jeffrey Edward Annable
Commerce (Information Systems)

Timothy James McGuire
Computer Science (Software)

Karl Michael Taylor
Computer Science (Software Co-operative Education)

Christopher Cosgrove
Aerospace Engineering

Feng Deng
Computer Systems Engineering

Kimberley Michelle Corace
Honours Psychology

Rachel Lea Heide
Honours History

Matthew Earl Lamourie
Computer Systems Engineering

Seema Bissoon
Honours Biochemistry

Leah Michelle McFeetors
Honours Art History

Rebecca Adell
Honours History

Colin Welburn
Environmental Engineering

Greg Cwintal
Computer Science (Software Co-operative Education)

Joseph Skaff
Computer Systems Engineering

Jeffrey Michael Taylor
Computer Systems Engineering

Shirley Farquhar
Psychology

David Peter Tregunno
Computer Systems Engineering

Maria Davidson
Law

Larson E.W. Laycock
Honours Psychology

Amy Jennifer Ward
Honours Biochemistry and Biotechnology

Michel Beshara
Electrical Engineering

Dinah Susan Laprairie
Honours Comparative Literary Studies

Meghan Kamcke
Honours History

Kaarina Stiff
Honours History and Political Science

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